

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	CITY, DOCKET NO.		SERIAL NO.
	19603/448 (CRF D-1593C)		Continuation of 09/440,523
	APPLICANT		09918154
	Barany et al.		1150 U.S. PTO 11/09/91 8156 PTO 01/30/01
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9/29	1	5,695,934	12/09/97	Brenner			
	2	5,593,840	01/14/97	Bhatnagar et al.			
	3	5,536,649	07/16/96	Fraiser et al.			
	4	5,494,810	02/27/96	Barany et al.			
	5	5,470,705	11/28/95	Grossman et al.			
9/29	6	5,424,186	06/13/95	Fodor et al.			
9/29	7	5,407,798	04/18/95	Martinelli et al.			

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9/29	8	WO 94/17210	04.08.94	Europe			
	9	WO 94/17206	04.08.94	Europe			
9/29	10	WO 94/11530	26.05.94	Europe			
9/29	11	WO 94/09022	28.04.94	Europe			

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9/29	12	Mao, L., et al., "Microsatellite Alterations as Clonal Markers for the Detection of Human Cancer," <u>Proc. Natl. Acad. Sci. USA</u> , 91:9871-75 (1994)						
		13	Mao, L., et al., "Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis," <u>Science</u> , 271:659-62 (1996)					
		14	Radford, D.M., et al., "Allelotyping of Ductal Carcinoma <i>in Situ</i> of the Breast: Deletion of Loci on 8p, 13q, 16q, 17p and 171 ^{1,2} " <u>Cancer Research</u> , 55:3399-405 (1995)					
		15	Cawkwell, L., et al., "Frequency of Allele Loss of DCC, p53, RBI, WT1, NF1, NM23 and PC/MCC in Colorectal Cancer Assayed by Fluorescent Multiplex Polymerase Chain Reaction," <u>Br. J. Cancer</u> , 70(5):813-8 (1994)					
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	099181574
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<i>RRH</i>	17	5,405,783	04/11/95	Pirring et al.			
	18	5,371,241	12/06/94	Brush et al.			
	19	5,352,582	10/04/94	Lichtenwalter et al.			
	20	5,324,633	06/28/94	Fodor et al.			
	21	5,314,809	05/24/94	Erlich et al.			
<i>RRH</i>	22	5,290,925	03/01/94	Fino			
<i>RRH</i>	23	5,288,468	02/22/94	Church et al.			

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<i>RRH</i>	24	WO 93/20236	14.10.93	Europe			
	25	WO 93/17126	02.09.93	Europe			
<i>RRH</i>	26	WO 92/16655	01.10.92	Europe			
<i>RRH</i>	27	WO 92/10588	25.06.92	Europe			

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<i>RRH</i>	28	Syvänen, A., et al., "Identification of Individuals by Analysis of Biallelic DNA Markers, Using PCR and Solid-Phase Minisequencing," <i>Am. J. Hum. Genet.</i> , 52:46-59 (1993)
	29	Deng, G., et al., "An Improved Method of Competitive PCR for Quantitation of Gene Copy Number," <i>Nucleic Acids Research</i> , 21(20):4848-49 (1993)
	30	Hsuih, T.C.H., et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," <i>J. Clin. Microbiol.</i> , 34(3):a-g (1996)
	31	Park, Y.N., et al., "Detection of HCV RNA Using Ligation-Dependent Polymerase Chain Reaction in Formalin-Fixed Paraffin-Embedded Liver Tissue," (1996) (submitted)
<i>RRH</i>	32	Wegmüller, B., et al., "Combination of Oligonucleotide Ligation and PCR to Detect Point Mutations," (unpublished)
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9211	33	5,278,298	01/11/94	Chakraborty et al.			
	34	5,258,506	11/02/93	Urdea et al.			
	35	5,202,231	04/13/93	Drmanac et al.			
	36	5,143,854	09/01/92	Pirrung et al.			
	37	5,035,996	07/30/91	Hartley			
	38	4,988,617	01/29/91	Landegren et al.			
	39	4,883,750	11/28/89	Whiteley et al.			

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	41	WO 89/10977	16.11.89	Europe			
	42	EP 0 601 714 A1	15.06.94	Europe			
	43	WO 96/06190	02/29/96	Europe			

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9211	44	Nilsson, M., et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <u>Science</u> , 265:2085-88 (1994)
	45	Newton, C.R., et al., "The Production of PCR Products With 5' Single-Stranded Tails Using Primers That Incorporate Novel Phosphoram Phosphoramidite Intermediates," <u>Nucleic Acids Research</u> , 21(5):115-62 (1993)
	46	Day et al., "Detection of Steroid 21-Hydroxylase Alleles Using Gene-Specific PCR and a Multiplexed Ligation Detection Reaction," <u>Genomics</u> , 29:152-62 (1995)
	47	Grossman et al., "High-Density Multiplex Detection of Nucleic Acid Sequences: Oligonucleotide Ligation Assay and Sequence-Coded Separation," <u>Nucleic Acids Research</u> , 22(21):4527-34(1994)
9211	48	Jin et al., "Alternating Current Impedance Characterization of the Structure of Alkylsiloxane Self-Assembled Monolayers on Silicon," <u>Langmuir</u> , 10:2662-71 (1994)

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<i>RJA</i>		49	Cheng et al., "In Situ Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy of Carboxylate-Bearing, Siloxane-Anchored, Self-Assembled Monolayers: A Study of Carboxylate Reactivity and Acid-Base Properties," <i>Langmuir</i> , 11:1190-95 (1995)			
		50	Kim et al., "Polymeric Self-Assembled Monolayers. 2. Synthesis and Characterization of Self-Assembled Polydiacetylene Mono- and Multilayers," <i>J. Am. Chem. Soc.</i> , 117:3963-67 (1995)			
		51	Lauer et al., "Cloning, Nucleotide Sequence, and Engineered Expression of <i>Thermus thermophilus</i> DNA Ligase, a Homolog of <i>Escherichia coli</i> DNA Ligase," <i>J. Bacteriol.</i> , 173(16):5047-53 (1991)			
		52	Barany et al., "Cloning, Overexpression and Nucleotide Sequence of a Thermostable DNA Ligase-Encoding Gene," <i>Gene</i> , 109:1-11 (1991)			
		53	Jou et al., "Deletion Detection in the Dystrophin Gene by Multiplex Gap Ligase Chain Reaction and Immunochromatographic Strip Technology," <i>Human Mutation</i> , 5:86-93 (1995)			
		54	Chan et al., "Polymeric Self-Assembled Monolayers. 3. Pattern Transfer by Use of Photolithography, Electrochemical Methods and an Ultrathin, Self-Assembled Diacetylenic Resist," <i>J. Am. Chem. Soc.</i> , 117:5875-76 (1995)			
		55	Munkholm et al., "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement," <i>Anal. Chem.</i> 58:1427-30 (1986)			
		56	Graham et al., "Gene Probe Assays on a Fibre-Optic Evanescent Wave Biosensor," <i>Biosensors & Bioelectronics</i> , 7:487-93 (1992)			
<i>RJA</i>		57	Chetverin et al., "Sequencing of Pools of Nucleic Acids on Oligonucleotide Arrays," <i>BioSystems</i> , 30:215-31 (1993)			

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		59	Beattie et al., "Advances in Genosensor Research," <u>Clin. Chem.</u> , 41(5):700-06 (1995)			
		60	Bains, W., "Mixed Hybridization and Conventional Strategies for DNA Sequencing," <u>Gata</u> , 10(3-4):84-94 (1993)			
		61	Kuznetsova et al., "DNA Sequencing by Hybridization with Oligonucleotides Immobilized in a Gel," <u>Mol. Biol. (Mosk)</u> (Russia), 28(2):290-99			
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<i>9/10/02</i>		66	Reynolds et al., "Analysis of Genetic Markers in Forensic DNA Samples Using the Polymerase Chain Reaction," <u>Anal. Chem.</u> , 63:2-15 (1991))			

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		68	Gyllensten et al., "PCR-Based HLA Class II Typing," <u>PCR Meth. Appl.</u> , 1:91-98 (1991)				
		69	Chamberlain et al., "Deletion Screening of the Duchenne Muscular Dystrophy Locus Via Multiplex DNA Amplification," <u>Nucleic Acids Res.</u> , 16(23):11141-56 (1988)				
		70	L. C. Tsui, "Mutations and Sequence Variations Detected in the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Gene: A Report From the Cystic Fibrosis Genetic Analysis Consortium," <u>Human Mutat.</u> , 1:197-203 (1992)				
		71	Hollstein et al., "p53 Mutations in Human Cancers," <u>Science</u> , 253:49-53 (1991)				
		72	R.K. Saiki, et al., "Enzymatic Amplification of β-Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <u>Science</u> 230:1350 (1985)				
		73	Wu, et al., "The Ligation Amplification Reaction (LAR) -- Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <u>Genomics</u> 4:560-69 (1989)				
		74	Landegren, et al., "A Ligase-Mediated Gene Detection Technique," <u>Science</u> 241:1077-80 (1988)				
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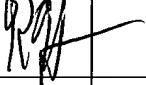
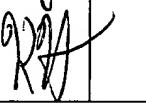
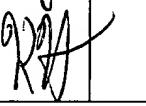
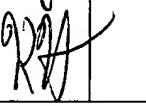
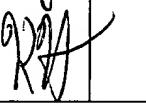
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		79	F.F. Chehab, et al., "Detection of Specific DNA Sequences by Fluorescence Amplification: A Color Complementation Assay," <u>Proc. Natl. Acad. Sci. USA</u> , 86:9178-82 (1989)				
		80	Livak et al., "Detection of Single Base Differences Using Biotinylated Nucleotides With Very Long Linker Arms," <u>Nucleic Acids Res.</u> , 20(18):4831-37 (1989)				
		81	Nickerson et al., "Automated DNA Diagnostics Usi ng an ELISA-Based Oligonucleotide Ligation Assay," <u>Proc. Natl. Acad. Sci. USA</u> , 87:8923-27 (1990)				
		82	Weber, J.L. et al., "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction," <u>Am. J. Hum. Genet.</u> 44:388-96 (1989)				
		83	Weissenbach, J. et al., "A Second-Generation Linkage Map of the Human Genome," <u>Nature (London)</u> 359:794-800 (1992)				
		84	Ruppert, J.M., et al., "Evidence for Two Bladder Cancer Suppressor Loci on Human Chromosome 9 ¹ ," <u>Cancer Res.</u> 53:5093-94 (1993)				

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		95	Peinado, M.A., et al., "Isolation and Characterization of Allelic Losses and Gains in Colorectal Tumors by Arbitrarily Primed Polymerase Chain Reaction," <u>Proc. Natl. Acad. Sci. USA</u> 89:10065-69 (1992)				
		96	Ionov, Y., "Ubiquitous Somatic Mutations in Simple Repeated Sequences Reveal a New Mechanism for Colonic Carcinogenesis," <u>Nature (London)</u> 363:558-61 (1993)				
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	19603/448 (CRF D-1593C)	<u>Continuation of 09/440,523</u>
	APPLICANT	<i>09 918157e</i>
	Barany et al.	
FILING DATE	GROUP ART UNIT	
Herewith	To Be Assigned	

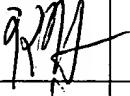
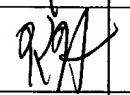
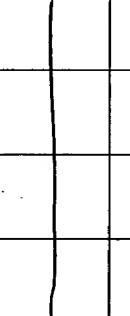
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	103	5,912,148	09/98	Eggerding			
	104	5,800,984	09/01/98	Vary			
	105	5,731,171	03/98	Bohlander			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

 			106	Leach, F., et al., "Mutations of a mutS Homolog in Hereditary Nonpolyposis Colorectal Cancer," <u>Cell</u> 75:1215-25 (1993)
			107	Fishel, R., et al., "The Human Mutator Gene Homolog MSH2 and its Associate with Hereditary Nonpolyposis Colon Cancer," <u>Cell</u> 75:1027-38 (1993)
			108	Papadopoulos, N., et al., "Mutation of a mutl. Homolog in Hereditary Colon Cancer," <u>Science</u> 263:1625-29 (1994)
			109	Bronner, C.E., et al., "Mutation in the DNA Mismatch Repair Gene Homologue hMLH1 is Associated with Hereditary Non-Polyposis Colon Cancer," <u>Nature (London)</u> 368:258-61 (1994)
			110	Celi, et al., "A Rapid and Versatile Method to Synthesize Internal Standards for Competitive PCR," <u>Nucleic Acids Research</u> 21(4):1047 (1993)
			111	Wiedmann et al., "Ligase Chain Reaction (LCR)-Overview and Applications," <u>PCR Methods and Applications</u> CSH Laboratory Press, S51-S64 (1994)

EXAMINER	HORLICK	DATE CONSIDERED	<i>6/16/02</i>
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